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mGluR5 (D6E7B) Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 150, 300	Source/Isotype: Rabbit IgG	UniProt ID: #P41594	Entrez-Gene Id: 2915
Product Usage Information	Aį	pplication		Dilution		
	W	estern Blotting		1:1000		
	Im	nmunoprecipitation		1:50		
	Im	nmunofluorescence ((Frozen)	1:200		
Storage	Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less t 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		mGluR5 (D6E7B) Rabbit mAb recognizes endogenous levels of total mGluR5 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human mGluR5 protein.				
mGluR5, a metabotropic glutamate receptor, is a class C G protein-coupled receptor, the Gaq/11-PLC-inositol 1,4,5 triphosphate pathway (1). mGluR5 is comprised of extracellular domain, seven transmembrane domains, and a C-terminal intracellul binding to mGluR5 leads to an increase in intracellular calcium levels and stimular neurons, mGluR5 is found in the post-synapse, in a complex with NMDA receptor Homer (3). mGluR5 is also expressed in microglia and astrocytes (4). Neuronal m to interact with amyloid beta oligomers, and mGluR5 antagonists exhibit neuropro mGluR5 as a potential therapeutic target for Alzheimer's disease. In glial cells, monanti-inflammatory role by negatively regulating the release of inflammatory factors					5 is comprised of a lar erminal intracellular de evels and stimulation of h NMDA receptors, PS is (4). Neuronal mGluf s exhibit neuroprotecti e. In glial cells, mGluR	ge N-terminal comain. Glutamate of PKC activity (2). In SD-95, SHANK, and R5 has been shown ve effects (5) placing 5 appears to play an
1. Abdul-Ghani, M.A. et al. (1996) <i>J Ni</i> 2. Pin, J.P. and Duvoisin, R. (1995) <i>Ni</i> 3. Tu, J.C. et al. (1999) <i>Neuron</i> 23, 58 4. Verkhratsky, A. et al. (1998) <i>Physiol</i> 5. Bruno, V. et al. (2000) <i>Neuropharme</i> 6. Byrnes, K.R. et al. (2009) <i>Glia</i> 57, 5				ropharmacology 34, 1-20 92. ev 78, 99-141. ology 39, 2223-30.		

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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mGluR5 (D6E7B) Rabbit mAb (#55920) Datasheet Without Images Cell Signaling Technology

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